BRUHAT BANGLORE MAHANAGARA PALIKE

YALAHANKA ZONE, BANGLORE

MEASUREMENT SHEET

PRE-MEASUREMENT

RA 1ST AND PART BILL

Name of work:	**Comprehensive Development of Hegdenagar East Side cross roads and Shabarinagar cross road in Ward**
Estimated Cost :	Rs. 199.00 Lakhs
Job Code/Indent No.	006-20-000162
Name of Agency:	Sri. V Chandrappa No.681, Dasarahalli, Hebbal Post,
Ref:	EE(Project)/Ynk Zone/163/2019-20 Dated 02/03/2020
Date of Recording:	01-06-2020 to 25-08-2020

Sl No	Description of item	No	L	B	D	Qty	Unit
1	Removing and resetting of footpath slab						Sqm
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.20		36.00	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.20		0.60	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.20		36.00	
	Ch: 30.00 to 33.20 Mts	1	3.20	1.20		3.84	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.20		36.00	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.20		0.60	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.20		36.00	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.20		0.60	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.20		36.00	
	Ch: 30.00 to32.30 Mts	1	2.30	1.20		2.76	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.20		36.00	
	Ch: 30.00 to 32.2 Mts	1	2.20	1.20		2.64	
						227.04	
						34.08	
	Damaged/Missing Slabs				**Qty**	**192.96**	
	CULVERT						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	1	6.80	1.80		12.24	
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	1	6.40	1.80		11.52	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	1	6.90	1.80		12.42	
	4th cross road culvert						

02/6/20

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	Ch: 0.00 to 7.30 Mts	1	7.30	1.80		13.14	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	1	7.60	1.80		13.68	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	1	7.10	1.80		12.78	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.80		13.14	
						88.92	
						9.72	
	Damaged/Missing Slabs				**Qty**	**79.20**	
					Total Qty	**272.16**	

25/K/2020

Contractor

PMC

Assistant Engineer
Project Division Yelahanka

Assist Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
Date of Recording:		26-07-2020 to 25-08-2020					
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar						Cum
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.20	0.80	9.60	
	Ch: 30.00 to 30.50 Mts	2	0.50	0.20	0.80	0.16	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.20	0.80	12.00	
	Ch: 30.00 to 33.20 Mts	2	3.20	0.20	0.80	1.28	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.20	0.80	12.00	
	Ch: 30.00 to 30.50 Mts	2	0.50	0.20	0.80	0.20	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.20	0.80	12.00	
	Ch: 30.00 to 30.50 Mts	2	0.50	0.20	0.80	0.20	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.20	0.80	12.00	
	Ch: 30.00 to32.30 Mts	2	2.30	0.20	0.80	0.92	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.20	0.80	12.00	
	Ch: 30.00 to 32.20 Mts	2	2.20	0.20	0.80	0.88	
					Total Qty	73.24	

26/2/2020

25/8/20

Contractor

RMC

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Assist Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
Date of Recording:		12-08-2020 to 28-08-2020					
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar						Cum
	CULVERT						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	2	6.80	0.45	0.80	4.90	
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	2	6.40	0.45	0.80	4.61	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	2	6.90	0.45	0.80	4.97	
	4th cross road culvert						
	Ch: 0.00 to 7.30 Mts	2	7.30	0.45	0.80	5.26	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	2	7.60	0.45	0.80	5.47	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	2	7.10	0.45	0.80	5.11	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	2	7.30	0.45	0.80	5.26	
					Total Qty	**35.57**	

15/8/20

Contractor

RMC

Assistant Engineer
Project Division Yelahanka

Asst Executive Engineer
Project Division Yelahanka

Asst Executive Engineer
Project Division
Yelahanka Zone
BBMP. Bangalore - 92

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
Date of Recording:		07/06/2020 to 15/07/2020					
5	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3						Cum
	Desilting						
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 30.50 Mts	1	0.50	0.50	0.60	0.15	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 33.20 Mts	1	3.20	0.50	0.60	0.96	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 30.50 Mts	1	0.50	0.50	0.60	0.15	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 30.50 Mts	1	0.50	0.50	0.60	0.15	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to32.30 Mts	1	2.30	0.50	0.60	0.69	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 32.20 Mts	1	2.20	0.50	0.60	0.66	
	RK Hegdenagar Cross Roads						
	1st Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 74.70 Mts	1	14.70	0.50	0.60	4.41	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 74.60 Mts	1	14.60	0.50	0.60	4.38	
	2nd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 62.30 Mts	1	2.30	0.50	0.60	0.69	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	

08/10/2020

15/10/2020

Asst. Executive Engi
Project Division
Yelahanka Zone
BBMP. Bangalore -

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 62.20 Mts	1	2.20	0.50	0.60	0.66	
	3rd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 63.50 Mts	1	3.50	0.50	0.60	1.05	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.55	8.25	
	Ch: 60.00 to 63.70 Mts	1	3.70	0.50	0.55	1.02	
	4th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 69.30 Mts	1	9.30	0.50	0.60	2.79	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 69.80 Mts	1	9.80	0.50	0.65	3.19	
	5th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 70.70 Mts	1	10.70	0.50	0.55	2.94	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 71.00 Mts	1	11.00	0.50	0.60	3.30	
	6th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 74.50 Mts	1	14.50	0.50	0.60	4.35	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 74.70 Mts	1	14.70	0.50	0.60	4.41	
	7th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 77.00 Mts	1	17.00	0.50	0.55	4.68	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.50	0.60	9.00	
	Ch: 60.00 to 77.50 Mts	1	17.50	0.50	0.60	5.25	
	CULVERT						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	1	6.80	0.50	0.60	2.04	

22/6/20

23/6/20

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	1	6.40	0.50	0.60	1.92	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	1	6.90	0.50	0.60	2.07	
	4th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	0.50	0.60	2.19	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	1	7.60	0.50	0.60	2.28	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	1	7.10	0.50	0.60	2.13	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	0.50	0.60	2.19	
	For New Drain						
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.95	31.38	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.10	0.95	0.52	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	1.00	33.00	
	Ch: 30.00 to 33.20 Mts	1	3.20	1.10	1.00	3.52	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.90	29.70	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.10	0.90	0.50	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	1.20	39.60	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.10	1.20	0.66	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	1.60	52.80	
	Ch: 30.00 to32.30 Mts	1	2.30	1.10	0.80	2.02	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.65	21.45	
	Ch: 30.00 to 32.20 Mts	1	2.20	1.10	0.65	1.57	
	RK Hegdenagar Cross Roads						
	1st Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.65	19.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.20	6.00	
	Ch: 60.00 to 74.70 Mts	1	14.70	1.00	0.20	2.94	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.75	22.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.65	19.50	
	Ch: 60.00 to 74.60 Mts	1	14.60	1.00	0.20	2.92	
	2nd Cross						

30/6/20

5/7/20

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.60	18.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.20	6.00	
	Ch: 60.00 to 62.30 Mts	1	2.30	1.00	0.15	0.35	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.65	19.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.45	13.50	
	Ch: 60.00 to 62.20 Mts	1	2.20	1.00	0.20	0.44	
	3rd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.60	18.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.20	6.00	
	Ch: 60.00 to 63.50 Mts	1	3.50	1.00	0.15	0.53	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.45	13.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 63.70 Mts	1	3.70	1.00	0.15	0.56	
	4th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.60	18.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.30	9.00	
	Ch: 60.00 to 69.30 Mts	1	9.30	1.00	0.15	1.40	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.60	18.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 69.80 Mts	1	9.80	1.00	0.10	0.98	
	5th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.65	19.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.30	9.00	
	Ch: 60.00 to 70.70 Mts	1	10.70	1.00	0.15	1.61	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.60	18.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.60	18.00	
	Ch: 60.00 to 71.00 Mts	1	11.00	1.00	0.25	2.75	
	6th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.70	21.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 74.50 Mts	1	14.50	1.00	0.15	2.18	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.70	21.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.40	12.00	
	Ch: 60.00 to 74.70 Mts	1	14.70	1.00	0.30	4.41	
	7th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.75	22.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.25	7.50	
	Ch: 60.00 to 77.00 Mts	1	17.00	1.00	0.20	3.40	
	RHS SIDE DRAIN						

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.80	24.00	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.40	12.00	
	Ch: 60.00 to 77.50 Mts	1	17.50	1.00	0.35	6.13	
	CULVERT						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	1	6.80	1.45	1.20	11.83	
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	1	6.40	1.35	1.15	9.94	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	1	6.90	1.45	1.15	11.51	
	4th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.30	1.15	10.91	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	1	7.60	1.35	1.20	12.31	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	1	7.10	1.40	1.10	10.93	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.50	1.25	13.69	
					Total Qty	**1099.32**	

Contractor

PWC

Assistant Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
Date of Recording:		05-06-2020 to 15-09-2020					
6	KSRRB M2100-10: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.89 cum and fine aggregates @ 0.46 cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM of machinery, curing, formworks, scaffolding and centering complete as per specifications						Cum
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.15	4.95	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.10	0.15	0.08	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.15	4.95	
	Ch: 30.00 to 33.20 Mts	1	3.20	1.10	0.15	0.53	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.15	4.95	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.10	0.15	0.08	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.15	4.95	
	Ch: 30.00 to 30.50 Mts	1	0.50	1.10	0.15	0.08	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.15	4.95	
	Ch: 30.00 to32.30 Mts	1	2.30	1.10	0.15	0.38	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.10	0.15	4.95	
	Ch: 30.00 to 32.20 Mts	1	2.20	1.10	0.15	0.36	
	RK Hegdenagar Cross Roads						
	1st Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 74.70 Mts	1	14.70	1.00	0.15	2.21	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 74.60 Mts	1	14.60	1.00	0.15	2.19	
	2nd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 62.30 Mts	1	2.30	1.00	0.15	0.35	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 62.20 Mts	1	2.20	1.00	0.15	0.33	
	3rd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 63.50 Mts	1	3.50	1.00	0.15	0.53	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 63.70 Mts	1	3.70	1.00	0.15	0.56	
	4th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 69.30 Mts	1	9.30	1.00	0.15	1.40	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 69.80 Mts	1	9.80	1.00	0.15	1.47	
	5th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 70.70 Mts	1	10.70	1.00	0.15	1.61	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 71.00 Mts	1	11.00	1.00	0.15	1.65	
	6th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 74.50 Mts	1	14.50	1.00	0.15	2.18	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 74.70 Mts	1	14.70	1.00	0.15	2.21	
	7th Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 77.00 Mts	1	17.00	1.00	0.15	2.55	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 30.00 to 60.00 Mts	1	30.00	1.00	0.15	4.50	
	Ch: 60.00 to 77.50 Mts	1	17.50	1.00	0.15	2.63	
	CULVERT						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	1	6.80	1.45	0.20	1.97	

22/8/20

02/09/20

15/9/20

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	1	6.40	1.35	0.20	1.73	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	1	6.90	1.45	0.20	2.00	
	4th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.30	0.20	1.90	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	1	7.60	1.35	0.20	2.05	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	1	7.10	1.40	0.20	1.99	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.50	0.20	2.19	
					Total Qty	**192.87**	

15/9/2020

Contractor

RMC

Assistant Engineer
Project Division Yelahanka

Assist Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
Date of Recording:			20-08-2020 to 28-1-2020				
7	Providing laying plain / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300kgs with 20mm and downsize granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering shuttering cost of materials, HOM of machinery, curing etc., complet excluding cost of steel as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & bottom thickness 15cm						Cum
	RK Hegdenagar 1st Main RHS						
	FOR RAFT CONCRETE						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 30.50 Mts	1	0.50	0.90	0.15	0.07	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 33.20 Mts	1	3.20	0.90	0.15	0.43	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 30.50 Mts	1	0.50	0.90	0.15	0.07	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 30.50 Mts	1	0.50	0.90	0.15	0.07	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to32.30 Mts	1	2.30	0.90	0.15	0.31	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 32.20 Mts	1	2.20	0.90	0.15	0.30	
	RK Hegdenagar Cross Roads						
	1st Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 74.70 Mts	1	14.70	0.90	0.15	1.98	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 74.60 Mts	1	14.60	0.90	0.15	1.97	
	2nd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 62.30 Mts	1	2.30	0.90	0.15	0.31	

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 62.20 Mts	1	30.00	0.90	0.15	4.05	
	3rd Cross	1	2.20	0.90	0.15	0.30	
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 63.50 Mts	1	30.00	0.90	0.15	4.05	
	RHS SIDE DRAIN	1	3.50	0.90	0.15	0.47	
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 63.70 Mts	1	30.00	0.90	0.15	4.05	
	4th Cross	1	3.70	0.90	0.15	0.50	
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 69.30 Mts	1	30.00	0.90	0.15	4.05	
	RHS SIDE DRAIN	1	9.30	0.90	0.15	1.26	
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 69.80 Mts	1	30.00	0.90	0.15	4.05	
	5th Cross	1	9.80	0.90	0.15	1.32	
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 70.70 Mts	1	30.00	0.90	0.15	4.05	
	RHS SIDE DRAIN	1	10.70	0.90	0.15	1.44	
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 71.00 Mts	1	30.00	0.90	0.15	4.05	
	6th Cross	1	11.00	0.90	0.15	1.49	
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 74.50 Mts	1	30.00	0.90	0.15	4.05	
	RHS SIDE DRAIN	1	14.50	0.90	0.15	1.96	
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch; 60.00 to 74.70 Mts	1	30.00	0.90	0.15	4.05	
	7th Cross	1	14.70	0.90	0.15	1.98	
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 77.00 Mts	1	30.00	0.90	0.15	4.05	
	RHS SIDE DRAIN	1	17.00	0.90	0.15	2.30	
	Ch: 0.00 to 30.00 Mts						
	Ch: 30.00 to 60.00 Mts	1	30.00	0.90	0.15	4.05	
	Ch: 60.00 to 77.50 Mts	1	30.00	0.90	0.15	4.05	
		1	17.50	0.90	0.15	2.36	

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
	FOR WALL CONCRETE						
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.20	10.80	
	Ch: 30.00 to 30.50 Mts	2	0.50	0.15	1.20	0.18	
	Connected 2nd cross road to 3rd cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.30	11.70	
	Ch: 30.00 to 33.20 Mts	2	3.20	0.15	1.30	1.25	
	Connected 3rd cross road to 4th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.30	11.70	
	Ch: 30.00 to 30.50 Mts	2	0.50	0.15	1.30	0.20	
	Connected 4th cross road to 5th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.30	11.70	
	Ch: 30.00 to 30.50 Mts	2	0.50	0.15	1.30	0.20	
	Connected 5th cross road to 6th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.30	11.70	
	Ch: 30.00 to32.30 Mts	2	2.30	0.15	1.30	0.90	
	Connected 6th cross road to 7th cross road (main road)						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.25	11.25	
	Ch: 30.00 to 32.20 Mts	2	2.20	0.15	1.25	0.83	
	RK Hegdenagar Cross Roads						
	1st Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	0.95	8.55	
	Ch: 30.00 to 60.00 Mts	2	30.00	0.15	0.45	4.05	
	Ch: 60.00 to 74.70 Mts	2	14.70	0.15	0.45	1.98	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	1.05	9.45	
	Ch: 30.00 to 60.00 Mts	2	30.00	0.15	0.50	4.50	
	Ch: 60.00 to 74.60 Mts	2	14.60	0.15	0.40	1.75	
	2nd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	0.90	8.10	
	Ch: 30.00 to 60.00 Mts	2	30.00	0.15	0.50	4.50	
	Ch: 60.00 to 62.30 Mts	2	2.30	0.15	0.40	0.28	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	0.95	8.55	
	Ch: 30.00 to 60.00 Mts	2	30.00	0.15	0.50	4.50	
	Ch: 60.00 to 62.20 Mts	2	2.20	0.15	0.45	0.30	
	3rd Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	2	30.00	0.15	0.90	8.10	
	Ch: 30.00 to 60.00 Mts	2	30.00	0.15	0.45	4.05	

27/10/2020

27/10/2020

Scanned by TapScanner

Sl No	Description of Item	No	L	B	D	Qty	Unit
Date of Recording:		22-09-2020 to 29-10-2020					
8	Providing laying plain / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300kgs with 20mm and downsize granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering shuttering cost of materials, HOM of machinery, curing etc., complet excluding cost of steel as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & bottom thickness 15cm.						Cum
	CULVERT RAFT						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	1	6.80	1.15	0.20	1.56	
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	1	6.40	1.10	0.20	1.41	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	1	6.90	1.15	0.20	1.59	
	4th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.00	0.20	1.46	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	1	7.60	1.05	0.20	1.60	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	1	7.10	1.10	0.20	1.56	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	1	7.30	1.20	0.20	1.75	
	CULVERT WALL						
	1st cross road culvert						
	Ch: 0.00 to 6.8 Mts	2	6.80	0.23	1.45	4.54	
	2nd cross road culvert						
	Ch: 0.00 to 6.40 Mts	2	6.40	0.23	1.40	4.12	
	3rd cross road culvert						
	Ch: 0.00 to 6.90 Mts	2	6.90	0.23	1.40	4.44	
	4th cross road culvert						
	Ch: 0.00 to 7.30 Mts	2	7.30	0.23	1.35	4.53	
	5th cross road culvert						
	Ch: 0.00 to 7.60 Mts	2	7.60	0.23	1.35	4.72	
	6th cross road culvert						
	Ch: 0.00 to 7.10 Mts	2	7.10	0.23	1.35	4.41	
	7th cross road culvert						
	Ch: 0.00 to 7.30 Mts	2	7.30	0.23	1.30	4.37	
					Total Qty	42.06	

22/9/20

22/10/2020

Contractor

AEE

Assistant Engineer
Project Division Yelahanka

Assist Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP. Bangalore - 92

Scanned by TapScanner

Sl No	Description of item	No	L	B	D	Qty	Unit
Date of Recording:		17-11-2020 to 15-12-2020					
14	Providing laying plain / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300kgs with 20mm and downsize granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering shuttering cost of materials, HOM of machinery, curing etc., complet excluding cost of steel as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & bottom thickness 15cm.						Cum
	Wall Side Concrete						
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)	2	30.50	0.10	0.15	0.92	
	Connected 2nd cross road to 3rd cross road (main road)	2	33.20	0.10	0.15	1.00	
	Connected 3rd cross road to 4th cross road (main road)	2	30.50	0.10	0.15	0.92	
	Connected 4th cross road to 5th cross road (main road)	2	30.50	0.10	0.15	0.92	
	Connected 5th cross road to 6th cross road (main road)	2	32.30	0.10	0.15	0.97	
	Connected 6th cross road to 7th cross road (main road)	2	32.20	0.10	0.15	0.97	
	Slope Correction						
	RK Hegdenagar Cross Roads						
	1st Cross						
	LHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.60	0.40	7.20	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.60	0.30	5.40	
	Ch: 60.00 to 74.70 Mts	1	14.70	0.60	0.20	1.76	
	RHS SIDE DRAIN						
	Ch: 0.00 to 30.00 Mts	1	30.00	0.60	0.40	7.20	
	Ch: 30.00 to 60.00 Mts	1	30.00	0.60	0.30	5.40	
	Ch: 60.00 to 74.60 Mts	1	14.60	0.60	0.20	1.75	
					Total Qty	**34.39**	

02/11/20

15/12/2020

Contractor

PMC

Assistant Engineer
Project Division Yelahanka

Assist Executive Engineer
Project Division Yelahanka

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

Scanned by TapScanner

Name of Work: Comprehensive Development of Hegdenagar East Side cross roads and Shabarinagar cross road in Ward No.06

Steel Calculation

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
9	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications including all lead and lifts and as per the direction of engineer in charge						
	C.C Drain						
	RK Hegdenagar 1st Main RHS						
	Connected 1st cross road to 2nd cross road (main road)		15-08-2020 to 10-11-2020				
	Total Drain Length = 30.50m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 244	244	3.30		0.61	491.17	
	No of distrubution Bars = 26	26	30.50		0.39	309.27	
	Connected 2nd cross road to 3rd cross road (main road)						
	Total Drain Length = 33.20m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 266	266	3.50		0.61	567.91	
	No of distrubution Bars = 28	28	33.20		0.39	362.54	
	Connected 3rd cross road to 4th cross road (main road)						
	Total Drain Length = 30.50m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 244	244	3.50		0.61	520.94	
	No of distrubution Bars = 28	28	30.50		0.39	333.06	
	Connected 4th cross road to 5th cross road (main road)						
	Total Drain Length = 30.50m						

15/8/20

Scanned by TapScanner

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 244	244	3.50		0.61	520.94	
	No of distrubution Bars = 28	28	30.50		0.39	333.06	
	Connected 5th cross road to 6th cross road (main road)						
	Total Drain Length = 32.30m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 258	258	3.50		0.61	550.83	
	No of distrubution Bars = 28	28	32.30		0.39	352.72	
	Connected 6th cross road to 7th cross road (main road)						
	Total Drain Length = 32.20m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 258	258	3.40		0.61	535.09	
	No of distrubution Bars = 27	27	32.20		0.39	339.07	
	RK Hegdenagar 1st Cross Road						
	LHS						
	Total Drain Length = 74.70m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 240	240	2.80		0.61	409.92	
	No of distrubution Bars = 22	22	30.00		0.39	257.40	
	No of U Bars = 358	358	1.80		0.61	393.08	
	No of distrubution Bars = 14	14	44.70		0.39	244.06	
	RHS						
	Total Drain Length = 74.60m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 240	240	3.00		0.61	439.20	
	No of distrubution Bars = 24	24	30.00		0.39	280.80	

Asst. Executive Engi
Project Division
Yelahanka Zone
BBMP, Bangalore

Scanned by TapScanner

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	No of U Bars = 240	240	1.90		0.61	278.16	
	No of distrubution Bars = 15	15	30.00		0.39	175.50	
	No of U Bars = 117	117	1.70		0.61	121.33	
	No of distrubution Bars = 14	14	14.60		0.39	79.72	
	RK Hegdenagar 2nd Cross Road						
	LHS						
	Total Drain Length = 62.30m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 240	240	2.70		0.61	395.28	
	No of distrubution Bars = 22	22	30.00		0.39	257.40	
	No of U Bars = 240	240	1.90		0.61	278.16	
	No of distrubution Bars = 15	15	30.00		0.39	175.50	
	No of U Bars = 18	18	1.70		0.61	18.67	
	No of distrubution Bars = 14	14	2.30		0.39	12.56	
	RHS						
	Total Drain Length = 62.20m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 240	240	2.80		0.61	409.92	
	No of distrubution Bars = 22	22	30.00		0.39	257.40	
	No of U Bars = 240	240	1.90		0.61	278.16	
	No of distrubution Bars = 15	15	30.00		0.39	175.50	
	No of U Bars = 18	18	1.80		0.61	19.76	
	No of distrubution Bars = 14	14	2.20		0.39	12.01	
	RK Hegdenagar 3rd Cross Road						
	LHS						
	Total Drain Length = 63.50m						
	Main Bar 10mm dia @125mm c/c						
	d = 0.61 kg/m						
	Distrubution Bar 8mm dia @125mm c/c						
	d = 0.39 kg/m						
	No of U Bars = 240	240	2.70		0.61	395.28	
	No of distrubution Bars = 22	22	30.00		0.39	257.40	

Scanned by TapScanner